

AETNA AEROCRAFT CORPORATION

MODELS: Aerocraft 2SA, 2POLM

T.C. NUMBER: 733

Engine	Kinner R-5 Series 2 (See Item 201)
Fuel	73 minimum octane aviation gasoline
Engine limits	For all operations, 1850 rpm (160 hp)
Airspeed limits	Level flight or climb - 132 mph True Ind. Glide or dive - 170 mph True Ind.
Propeller limits	Static rpm at maximum permissible throttle setting (± 50 rpm) - not more than 1800, not less than 1725. (No other tolerance permissible.) Diameter - not more than 89 in. Diameter - not less than 86 in.
C.G. range	(+18.2) to (+22.6)
Datum	Wing leading edge
Leveling means	(Serials 2 and 3) Inclinator on left side of front cockpit (Serials 4 and up) Lugs on left side of front cockpit
Maximum weight	(Serial 2) 2036 lbs. (Serials 3 and 4) 2180 lbs. (Serials 5 and up) 2120 lbs.
No. seats	2 (one at +23 and one at +52) (See NOTE 2)
Maximum baggage	(Serial 2) 16 lbs. (wing compartments) (+23) (Serials 3 and up) None
Fuel capacity	37 gallons (tank in fuselage) (-7)
Oil capacity	3-1/2 gallons (-22)
Control surface movements	Elevators - up 18 degrees, down 28 degrees; Elevator tabs - up 17; down 28 degrees Ailerons - up 25; down 25 degrees; Rudder - right 35 degrees; left 25.5 degrees (except serials 3 and 4 - 24.5 degrees right and left)
Serial Nos.	2 and up eligible (See NOTE A)

Required equipment Item 101, 102, and 103

SPECIFICATIONS PERTINENT TO ALL MODELS:

Certification basis	Type Certificate No. 733 (CAR 4a)
Production basis	None (See NOTE A)
Export eligibility	Eligible for export as follows, subject to provisions of MOP 2-4: (a) Canada - Landplane - eligible Seaplane - not eligible (b) All other countries except Australia, Great Britain and New Zealand
Equipment:	(A plus (+) or minus (-) sign preceding the weight of an optional item indicates the new weight change between the item and the equivalent required item.)

Propeller and Propeller Accessories
101. Propeller - wood (fixed pitch) and hub (-51)

Engines and Engine Accessories - Fuel and Oil System
201. Kinner R-55 engine (same engine limits as R-5 Series 2) 21 lbs. (-38)

Landing Gear and Floats
102. 7.00-8 wheels with brakes (Shinn 8C1PB) 55 lbs. (+2)
103. 8x3 steerable tail wheel and tire 3 lbs. (+207)

NOTE A. Prior to original certification, each aircraft must satisfactorily pass:
(a) An inspection for workmanship, materials and conformity before any

covering, metal priming or final finish is applied. All woodwork may be varnished.

(b) A final inspection of the completed aircraft.

(c) Check of flight characteristics including spin and stability test at rear C.G. and trim at forward C.G.

NOTE 1. Current weight and balance report including list of equipment included in certificated weight empty, and loading instructions when necessary, must be in each aircraft at the time of original certification and at all times thereafter.

NOTE 2. Placard front cockpit, "Solo flying from rear seat only."